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AMENDMENTS TO CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

WHAT IS CLAIMED IS:

 (Currently Amended) An insert molding die for a hollow component, comprising: an upper die;

a lower die arranged under the upper die, wherein the upper die and the lower die forms a cavity which accommodates the hollow component and is charged with molten resin;

a plurality of upper-die pin members disposed on the upper die movably up and down, wherein the upper-die pin members hold the hollow component in the cavity;

upper-die urging means disposed on the upper die to urge the upper-die pin members downwardly so that the upper-die pin members project from the upper die by opening the upper die and the lower die and the upper-die pin members pressed into the upper die by closing the upper die and the lower die, the upper-die urging means including a first spring for urging a selected upper-die pin member downwardly and a second spring for urging the selected upper-die pin member upwardly, an urging force of the first spring being larger than that of the second spring;

a plurality of lower-die pin members disposed on the lower die movably up and down so as to oppose the upper-die pin members respectively, wherein the lower-die pin members hold the hollow component in the cavity in cooperation with the upper-die pin members to form a gap between the hollow component and the lower-die; and

lower-die urging means disposed on the lower die to urge the lower-die pin members upwardly so that the lower-die pin members project from the lower die by opening the upper die and the lower die and the lower-die pin members pressed into the lower die by closing the upper die and the lower die, the lower-die urging means including a third spring for

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urging a selected lower-die pin member upwardly and a fourth spring for urging the selected lower-die pin member downwardly, an urging force of the third spring being larger than that of the fourth spring.

- (Currently Amended) The insert molding die of claim 1, wherein the upper-die urging means and the lower-die urging means comprise additional springs respectively.
- (Original) The insert molding die of claim 1, wherein the upper-die urging means and the lower-die urging means comprise pneumatic cylinders respectively.
- (Original) The insert molding die of claim 1, wherein the upper-die urging means and the lower-die urging means comprise hydraulic cylinders respectively.
- (Original) The insert molding die of claim 1, wherein the upper die is provided with injection means adapted to inject molten resin into the cavity.
- (Original) The insert molding die of claim 5, wherein the lower die is provided with another injection means adapted to inject molten resin into the cavity.
- (Withdrawn) An insert molding method for molding a hollow component, comprising the steps of:

preparing a molding die comprising an upper die and a lower die, at least either one of the upper die and the lower die being movable to and from the other die;

separating the upper die from the lower die thereby opening the molding die;

arranging a hollow primary molded piece in the lower die while retaining the hollow primary molded piece apart from a concave bottom surface of the lower die; Response to Office Action dated June 15, 2007 Serial No. 10/797,641 Page 4

starting to inject molten resin into the molding die while retaining the hollow primary molded piece apart from the concave bottom surface of the lower die thereby filling up a space between the hollow primary molded piece and the concave bottom surface with the molten resin before completely closing the molding die; and

continuing to inject the molten resin into the molding die even after closing the molding die.

8. (Withdrawn) The injection molding method of claim 7, further comprising: preparing upper-die pin members disposed on the upper die movably up and down, upper-die urging means disposed on the upper die to urge the upper-die pin members downwardly, lower-die pin members disposed on the lower die movably up and down so as to oppose the upper-die pin members respectively, and lower-die urging means disposed on the lower die to urge the lower-die pin members upwardly, and

setting the hollow primary molded piece on the lower-die pin members when arranging the hollow primary molded piece in the lower die.

- (Withdrawn) The injection molding method of claim 7, wherein the molten resin is injected from the upper die in injecting the molten resin into the molding die.
- 10. (Withdrawn) The injection molding method of claim 9, wherein the molten resin is further injected from the lower die in injecting the molten resin into the molding die.
- 11. (New) The insert molding die of claim 1, wherein the selected lower-die pin member is provided with a locate pin for positioning the hollow component in the cavity.